

IN THE CLAIMS:

C1 1. (Currently amended) A method for maintaining a data warehouse,
comprising:

identifying a data source of interest;

updating a metadata to reflect information available from said source;

automatically generating a mediator based on said metadata; and

writing a wrapper for said source which calls said mediator, wherein
said method is applied to data warehousing applications in the domain of
functional genomics and proteomics.

2. (Original) The method of claim 1, wherein the step of updating a
metadata comprises entering new types of information, new data formats for
previously defined information, new transformations between data formats, and
the schema of said source.

3. (Original) The method of claim 1, wherein said mediator is fully
functional and is automatically generated by a stand-alone mediator generation
program.

C/ 4. (Original) The method of claim 3, wherein said mediator generation program automatically defines an API and translation libraries

5. (Original) The method of claim 4, wherein said mediator comprises code to translate between source and target representations, possibly using externally defined methods, and load data into said warehouse.

6. (Original) The method of claim 1, wherein said wrapper makes use of said mediator.

7. (Original) The method of claim 3, wherein said mediator generation program defines a public data representation, wherein said wrapper uses said public data representation.

8. (Original) The method of claim 3, wherein said wrapper uses said mediator to load data into said warehouse.

9-17. (Canceled)

18. (Currently amended) ~~The method of claim 1,~~ A method for maintaining a data warehouse, comprising:

identifying a data source of interest;

2 updating a metadata to reflect information available from said source;

automatically generating a mediator based on said metadata; and

writing a wrapper for said source which calls said mediator,

wherein said method is applied to data warehousing applications in the domain of protein sequence and structure analysis.

19. (Canceled)

20. (Original) The method of claim 1, wherein said method is used for integrating a new data source into a data warehouse.

21. (Original) The method of claim 1, wherein said method is used for updating a warehouse when a previously integrated data source is modified.

22, 23. (Canceled)

24. (Currently amended) A computer-useable medium embodying computer program code for maintaining a data warehouse by executing the steps of:

identifying a data source of interest;

updating a metadata to reflect information available from said source;

automatically generating a mediator based on said metadata; and

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writing a wrapper for said source which calls said mediator, wherein
said method is applied to data warehousing applications in the domain of
functional genomics and proteomics.

25. (Original) The computer-useable medium of claim 24, wherein the step of updating a metadata comprises entering new types of information, new data formats for previously defined information, new transformations between data formats, and the schema of said source.

26. (Original) The computer-useable medium of claim 24, wherein said mediator is fully functional and is automatically generated by a stand-alone mediator generation program.

27. (Original) The computer-useable medium of claim 24, wherein said mediator generation program automatically defines an API and translation libraries

28. (Original) The computer-useable medium of claim 27, wherein said mediator comprises code to translate between source and target representations, possibly using externally defined methods, and load data into said warehouse.

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29. (Original) The computer-useable medium of claim 24, wherein said wrapper makes use of said mediator.

30. (Original) The computer-useable medium of claim 26, wherein said mediator generation program defines a public data representation, wherein said wrapper uses said public data representation.

31. (Original) The computer-useable medium of claim 26, wherein said wrapper uses said mediator to load data into said warehouse.

32-40 (Previously canceled)

41. (Currently amended) ~~The computer-usable medium of claim 24, A~~
computer-useable medium embodying computer program code for maintaining
a data warehouse by executing the steps of:

identifying a data source of interest;

updating a metadata to reflect information available from said source;

automatically generating a mediator based on said metadata; and

writing a wrapper for said source which calls said mediator,

wherein said method is applied to data warehousing applications in the domain of protein sequence and structure analysis.

42. (Canceled)

43. (Previously amended) The computer-usable medium of claim 24, wherein said method is used for integrating a new data source into a data warehouse.

44. (Previously amended) The computer-usable medium of claim 24, wherein said method is used for updating a warehouse when a previously integrated data source is modified.

45, 46 (Previously cancelled)

47. (Canceled)

48. (Currently amended) ~~The method of claim 1,~~ A method for maintaining a data warehouse, comprising:
identifying a data source of interest;
updating a metadata to reflect information available from said source;
automatically generating a mediator based on said metadata; and
writing a wrapper for said source which calls said mediator,
wherein said method is applied to data warehousing applications in the domain of astrophysics and climate modeling.

49-51. (Canceled)

52. (Previously amended) The method of claim 1, wherein said method is used for integrating a new data source into a data warehouse.

53. (Previously amended) The method of claim 1, wherein said method is used for updating a warehouse when a previously integrated data source is modified.
